CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.14/BTR/CSR.8/614e/CEMENT/2014-15

Date: 02.09.2014

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B.T. Ravikumar,** No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.
*NAME OF THE WORK	:	Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	28.08.2014
PERIOD OF TESTING	:	28.08.2014 to 02.09.2014

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.14/BTR/CSR.8/614e/SAND-Gradation/2014-15 : 02.09.2014

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.T. Ravikumar,**
No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.

*** Name of Work** : Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 28.08.2014

Date of Testing : 02.09.2014

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.48	90-100	90-100	90-100	95-100
2.36	80.74	60-95	75-100	85-100	95-100
1.18	51.38	30-70	55-90	75-100	90-100
600 Micron	21.11	15-34	35-59	60-79	80-100
300 Micron	10.79	5-20	8-30	12-40	15-50
150 Micron	4.63	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.14/BTR/CSR.8/614e/AGG/GR/2014-15 : 02.09.2014

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Ravikumar,** No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.
* Name of Work	: Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 28.08.2014
Date of Testing	: 02.09.2014

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.92	95-100	85-100
20	55.36	30-70	0-20
10	26.63	10-35	0-5
4.75	3.98	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.14/BTR/STEEL/2014-15 05.09.2014

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.T. Ravikumar,** No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.
Name of the work	:	Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014
Date of Test	:	05.09.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.50	O.K	O.K

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Verified

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Job No.: CTCE/BBMP/W.No.14/BTR/CSR.8/614e/CUBE/2014-15

06.10.2014

TEST REPORT ON CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Ravikumar,** No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.
* Name of the work	: Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014
* Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 04.10.2014

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2014	06.10.2014	8.254	488.5	21.71
2	08.09.2014	06.10.2014	8.396	506.3	22.50
3	08.09.2014	06.10.2014	8.472	512.4	22.77

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10.10.2014

TEST REPORT ON CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B.T. Ravikumar,** No-180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.
* Name of the work	: Improvements to Drains at Cross Roads of Bhuvaneshwari Nagara in Ward No.14, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/2014-15 Dated: 28.08.2014
* Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as o:	: 28^{th} day
Sample Received on	: 04.10.2014

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.09.2014	10.10.2014	8.259	504.5	22.42
2	12.09.2014	10.10.2014	8.174	492.8	21.90
3	12.09.2014	10.10.2014	8.326	516.3	22.95

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